

ABSTRACTS

A powdered core made by compacting of a mixture of iron powder and resin powder of insulating binder, wherein the iron powder is composed of
5 atomized iron powder and reduced iron powder, and the resin powder is any one of thermosetting polyimide powder, a mixture of both thermosetting polyimide powder and polytetrafluoroethylene powder, thermoplastic polyimide powder, and a mixture of both thermoplastic polyimide powder and polytetrafluoroethylene powder, which is followed by heat treatment, thereby
10 obtaining a powdered core having high magnetic flux density, low iron loss, and having excellent machinability in shaping, cutting or drilling without forming any defects such as chipping or cracks.